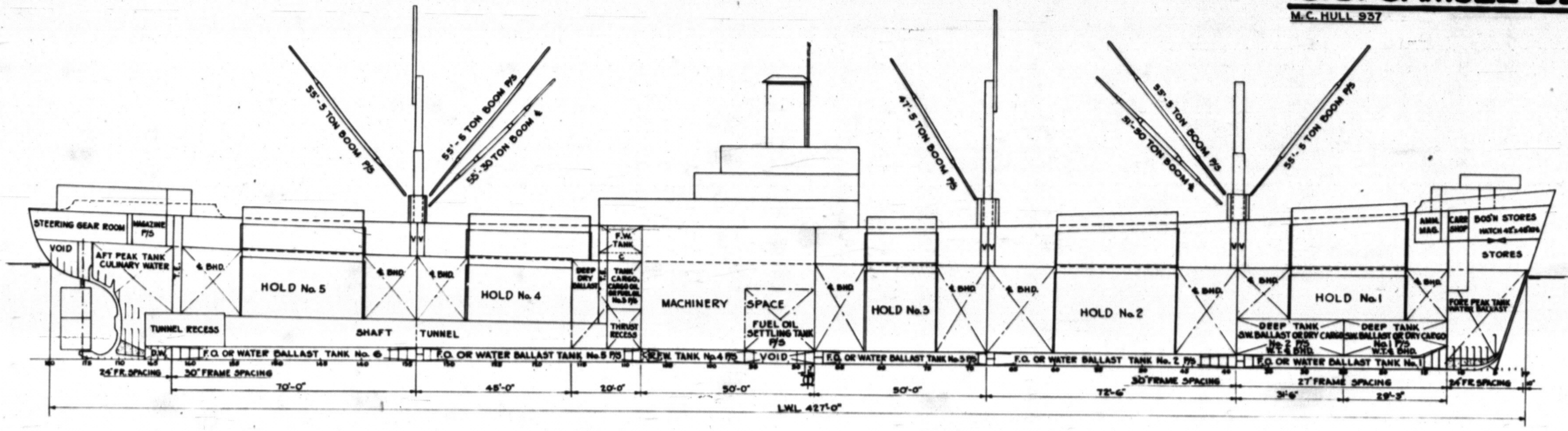
S.S. SAMUEL BLATCHFORD

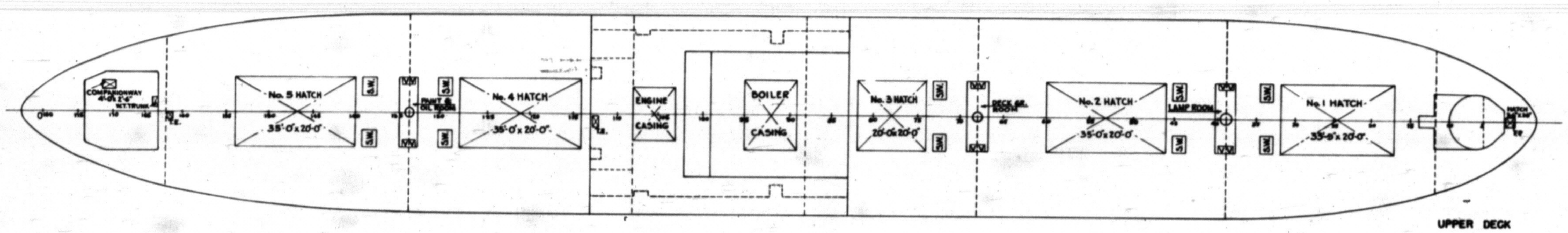
M.C. HULL 937

B-F HULL 2087

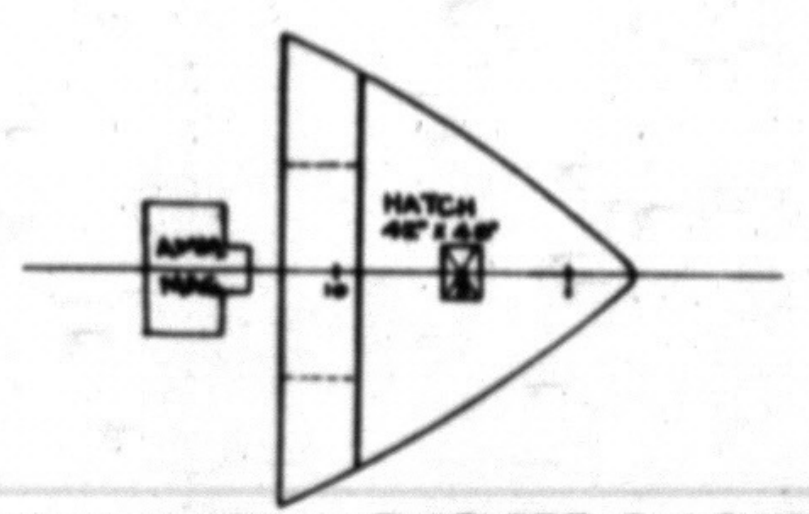


ABBREVIATION

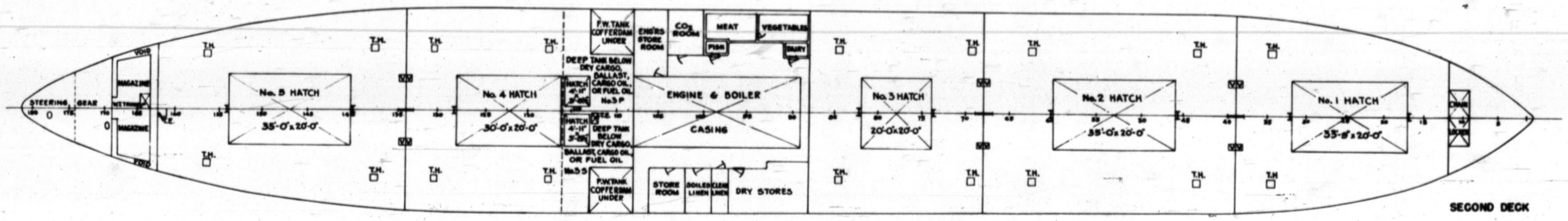
T.E. – TUNNEL ESCAPE
T.H. – TRIMMING HATCH
D.W. – DRAIN WELL
S.W. – STEAM WINCH
V. – VENT TRUNK
C. – COFFERDAM



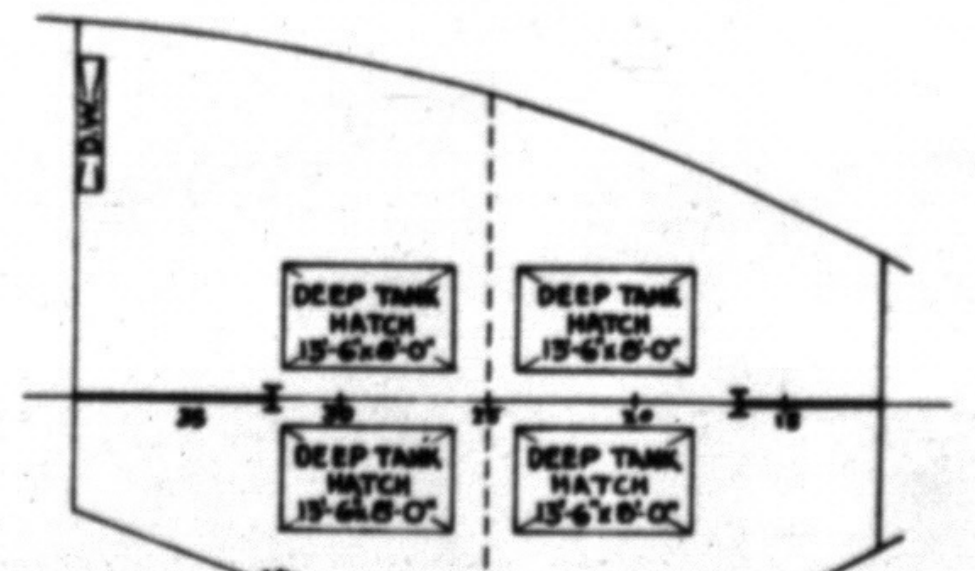
UPPER DECK



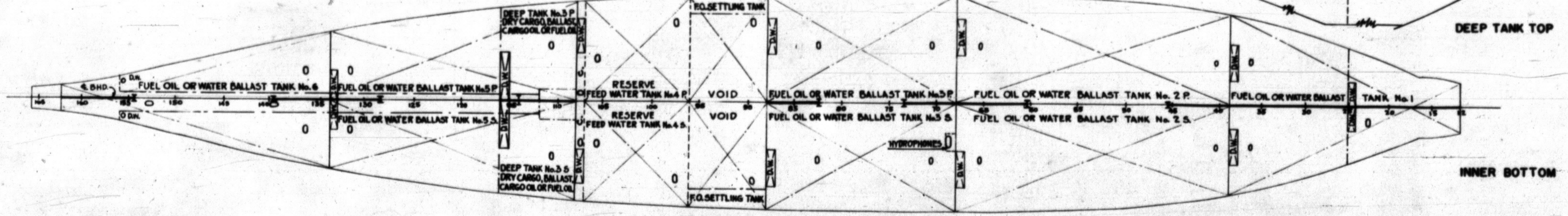
FLAT BET. 2nd & UPPER DKS.



SECOND DECK



DEEP TANK TOP


FUEL OIL OR WATER BALLAST TANK No. 6
FUEL OIL OR WATER BALLAST TANK No. 5 P
FUEL OIL OR WATER BALLAST TANK No. 5 S
DEEP TANK No. 3 P DRY CARGO, BALLAST, CARGO OIL OR FUEL OIL
DEEP TANK No. 3 S DRY CARGO, BALLAST, CARGO OIL OR FUEL OIL
RESERVE FEED WATER TANK No. 4 P
RESERVE FEED WATER TANK No. 4 S
F.O. SETTLING TANK
VOID
VOID
FUEL OIL OR WATER BALLAST TANK No. 3 P
FUEL OIL OR WATER BALLAST TANK No. 3 S
FUEL OIL OR WATER BALLAST TANK No. 2 P
FUEL OIL OR WATER BALLAST TANK No. 2 S
FUEL OIL OR WATER BALLAST TANK No. 1
HYDROPHONES

INNER BOTTOM

CARGO

COMPARTMENT		GRAIN CAP.	BALE CAP.
HOLD No. 1		C.F.	C.F.
	HOLD	41257	36083
	TWEEN DECKS	43143	39565
HOLD No. 2			
	HOLD	96860	92008
	TWEEN DECKS	46744	42630
HOLD No. 3			
	HOLD	68459	59793
	TWEEN DECKS	27970	23904
HOLD No. 4			
	HOLD	58841	52574
	TWEEN DECKS	35277	29689
HOLD No. 5			
	HOLD	58620	51671
	TWEEN DECKS	34570	30864
DEEP TANKS	No. 1P.	3639	2729
" "	No. 1S.	3639	3004
" "	No. 2P.	7473	5294
" "	No. 2S.	7473	5578
" "	No. 3P.	13674	12506
" "	No. 3S.	13188	12024
	TOTAL	562827	499816

WATER BALLAST

TANK		CU. FT.	TONS@35C.F.
FORE PEAK		5073	145
WATER BALLAST	No. 1	5029	144
" "	No. 2P.	5967	170
" "	No. 2S.	5967	170
" "	No. 3P.	4400	126
" "	No. 3S.	4365	125
" "	No. 5P.	4391	125
" "	No. 5S.	4391	125
" "	No. 6	4118	118
AFTER PEAK-CULINARY WATER		5438	155
DEEP TANKS	No. 1P.	3973	114
" "	No. 1S.	3973	114
" "	No. 2P.	7340	210
" "	No. 2S.	7340	210
" "	No. 3P.	13540	387
" "	No. 3S.	13065	373
	TOTAL	98370	2811

FRESH WATER

TANK		GAL'S	TONS@35C.F.
RESERVE FEED	No. 4P.	17855	66
" "	No. 4S	17855	66
FRESH WATER	FR. 108-113P.	7541	28
" "	FR. 108-113S.	7541	28
	TOTAL	50792	188

FUEL OIL

TANK		GAL'S	TONS@37.23C.F.
FUEL OIL TANK	No. 1	36863	132
" " "	No. 2P.	43742	157
" " "	No. 2S.	43742	157
" " "	No. 3P.	32251	116
" " "	No. 3S.	31955	115
" " "	No. 5P.	32185	116
" " "	No. 5S.	32185	116
" " "	No. 6	30183	108
	TOTAL	283106	1017
F.O. SETTLING TANK	FR. 88-96P.	14083	51
" " "	FR. 88-96S.	14083	51
	TOTAL	28166	102
CARGO OIL OR FUEL OIL			
DEEP TANK	No. 3P.	99257	356
" "	No. 3S.	95772	344
	TOTAL	195029	700
	TOTAL (ALL F.O.)	506301	1819

STORES

STORE ROOM	CU. FT.
BOS'N. STORES ON 2nd DECK F.P. TO FR. 12	3034
BOS'N. STORES ON FLAT BET. 2nd & UPP. DKS.	3492
CABIN STORES 2nd DK. (FRS. 88-106)	4329
LINEN LOCKER	585
BONDED STORES	186
REFRIGERATED STORES:	
MEAT	801
FISH	173
VEGETABLES	768
DAIRY	176

PRINCIPAL DIMENSIONS

L.O.A. 441'-7½"
L.B.P. (25'-3¼" W.L.) 416'-0"
BREADTH, MLD. 56'-10¾"
BREADTH, EXTREME 57'-1¼
DEPTH TO UPPER DECK, MLD. 37'-4"
DEPTH TO SECOND DECK, MLD. 28'-7"
DRAFT 27'-9¼"

CAPACITIES & TYPES OF WINCHES
7x12 DBL. GEARED WINCHES FOR 5 & 30 TON BOOMS
9x12 " " WINCH FOR 50 TON BOOM

HEIGHTS OF MASTS

FIXED MAST ABOVE DECK	FOREMAST	40'-3⅝"
" " " "	FR. 68	42'-11³⁄₁₆"
" " " "	FR. 134	42'-2⁷⁄₁₆"
TELESCOPIC " " "	FR. 68	62'-11³⁄₁₆"
" " " "	FR. 134	62'-2⁷⁄₁₆"

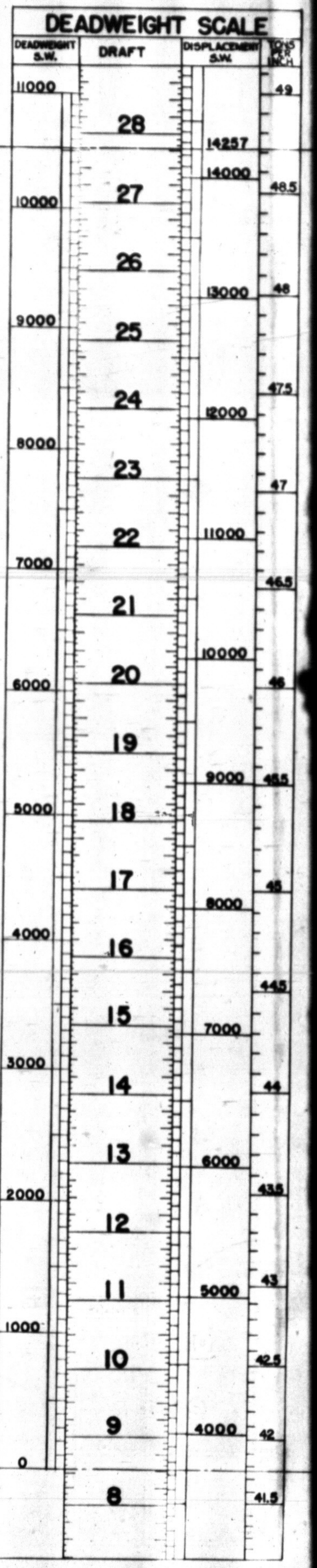
ENGINE

DIRECT ACTING CONDENSING THREE CYLINDER TRIPLE EXPANSION ENGINE DEVELOPING 2500 I.H.P. AT 76 R.P.M.

BOILERS

TWO MAIN BOILERS OF THE CROSS DRUM SECTIONAL SINUOUS HEADER STRAIGHT TUBE TYPE FITTED WITH SUPER HEATERS, BURNING BUNKER "C" FUEL OIL

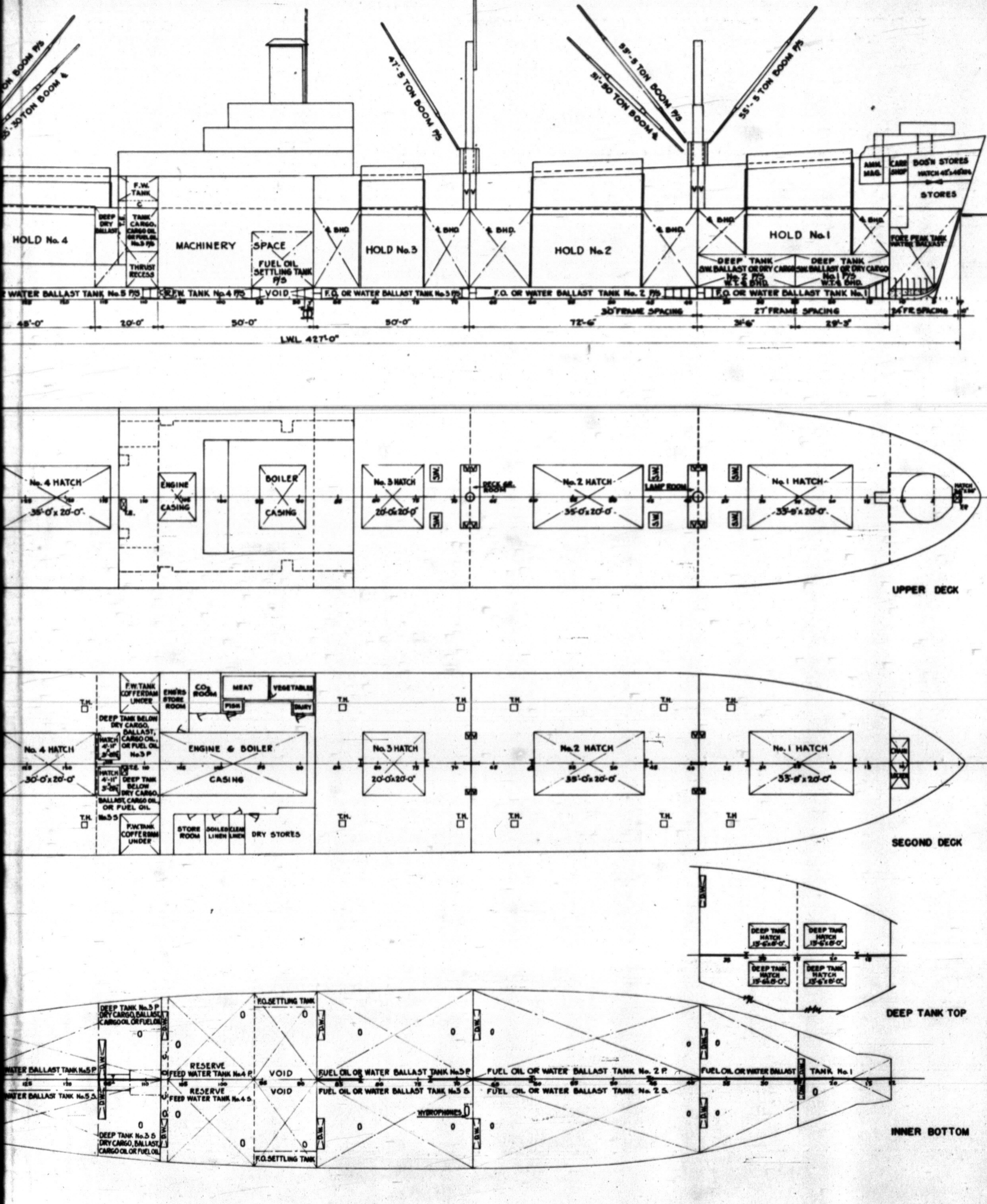
10521



S.S. SAMUEL BLATCHFORD

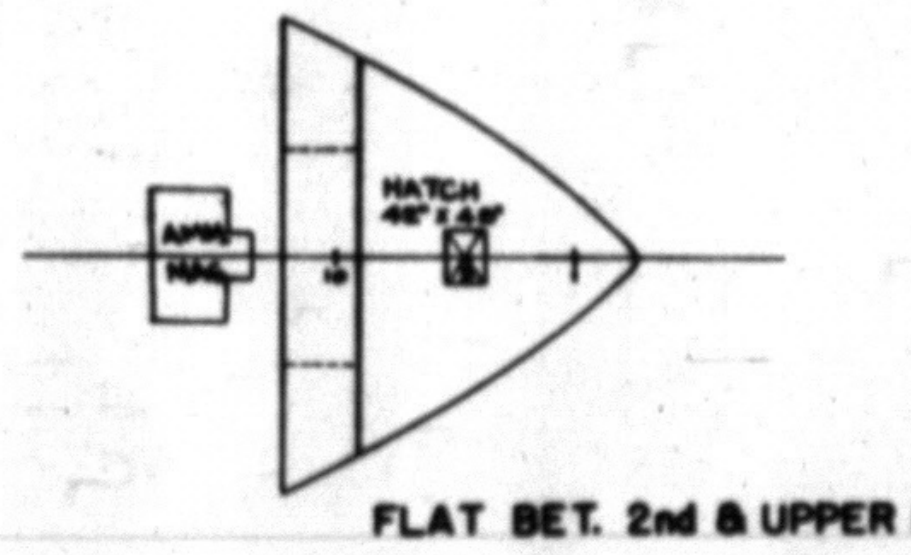
M.C. HULL 937

B-F HULL 2087



ABBREVIATION

T.E. — TUNNEL ESCAPE
T.H. — TRIMMING HATCH
D.W. — DRAIN WELL
S.W. — STEAM WINCH
V. — VENT TRUNK
C. — COFFERDAM



FLAT BET. 2nd & UPPER DKS.

STORES

STORE ROOM	CU. FT.
BOS'N. STORES ON 2nd DECK F.P. TO FR. 12	3034
BOS'N. STORES ON FLAT BET. 2nd & UPP. DKS.	3492
CABIN STORES 2nd DK. (FRS. 88-106)	4329
LINEN LOCKER	585
BONDED STORES	186
REFRIGERATED STORES:	
MEAT	801
FISH	173
VEGETABLES	768
DAIRY	176

CARGO

COMPARTMENT		GRAIN CAP.	BALE CAP.
HOLD No. 1		C.F.	C.F.
	HOLD	41257	36083
	TWEEN DECKS	43143	39565
HOLD No. 2			
	HOLD	98880	92008
	TWEEN DECKS	46744	42630
HOLD No.3			
	HOLD	68459	59793
	TWEEN DECKS	27970	23904
HOLD No. 4			
	HOLD	58841	52574
	TWEEN DECKS	35277	29689
HOLD No.5			
	HOLD	58820	51571
	TWEEN DECKS	34570	30864
DEEP TANKS	No. 1P.	3639	2729
" "	No. 1S.	3639	3004
" "	No. 2P.	7473	5294
" "	No. 2S.	7473	5578
" "	No. 3P.	13674	12506
" "	No. 3S.	13188	12024
	TOTAL	562827	499816

WATER BALLAST

TANK		CU. FT.	TONS@35CF
FORE PEAK		5073	145
WATER BALLAST	No. 1	5029	144
" "	No. 2P.	5967	170
" "	No. 2S.	5967	170
" "	No. 3P.	4400	126
" "	No. 3S.	4365	125
" "	No. 5P.	4391	125
" "	No. 5S.	4391	125
" "	No. 6	4118	118
AFTER PEAK-CULINARY WATER		5438	155
DEEP TANKS	No. 1P.	3973	114
" "	No. 1S.	3973	114
" "	No. 2P.	7340	210
" "	No. 2S.	7340	210
" "	No. 3P.	13540	387
" "	No. 3S.	13065	373
	TOTAL	98370	2811

FRESH WATER

TANK		GAL'S	TONS@35CF
RESERVE FEED	No. 4P.	17855	66
" "	No. 4S	17855	66
FRESH WATER	FR. 108-113P.	7541	28
" "	FR. 108-113S.	7541	28
	TOTAL	50792	188

FUEL OIL

TANK		GAL'S	TONS@37.23CF
FUEL OIL TANK	No. 1	36863	132
" " "	No. 2P.	43742	157
" " "	No. 2S.	43742	157
" " "	No. 3P.	32251	116
" " "	No. 3S.	31955	115
" " "	No. 5P.	32185	116
" " "	No. 5S.	32185	116
" " "	No. 6	30183	108
	TOTAL	283106	1017
F.O. SETTLING TANK	FR. 88-96P.	14083	51
" " "	FR. 88-96S.	14083	51
	TOTAL	28166	102
CARGO OIL OR FUEL OIL			
DEEP TANK	No. 3P.	99257	356
" "	No. 3S.	95772	344
	TOTAL	195029	700
	TOTAL (ALL F.O.)	506301	1819

PRINCIPAL DIMENSIONS

L.O.A.	441'-7½"
L.B.P. (25'-3¼" W.L.)	416'-0"
BREADTH, MLD.	56'-10¾"
BREADTH, EXTREME	57'-1¼
DEPTH TO UPPER DECK, MLD.	37'-4"
DEPTH TO SECOND DECK, MLD.	28'-7"
DRAFT	27'-9¼"

CAPACITIES & TYPES OF WINCHES

7"x12" DBL. GEARED WINCHES FOR 5 & 30 TON BOOMS

9"x12" " " WINCH FOR 50 TON BOOM

HEIGHTS OF MASTS

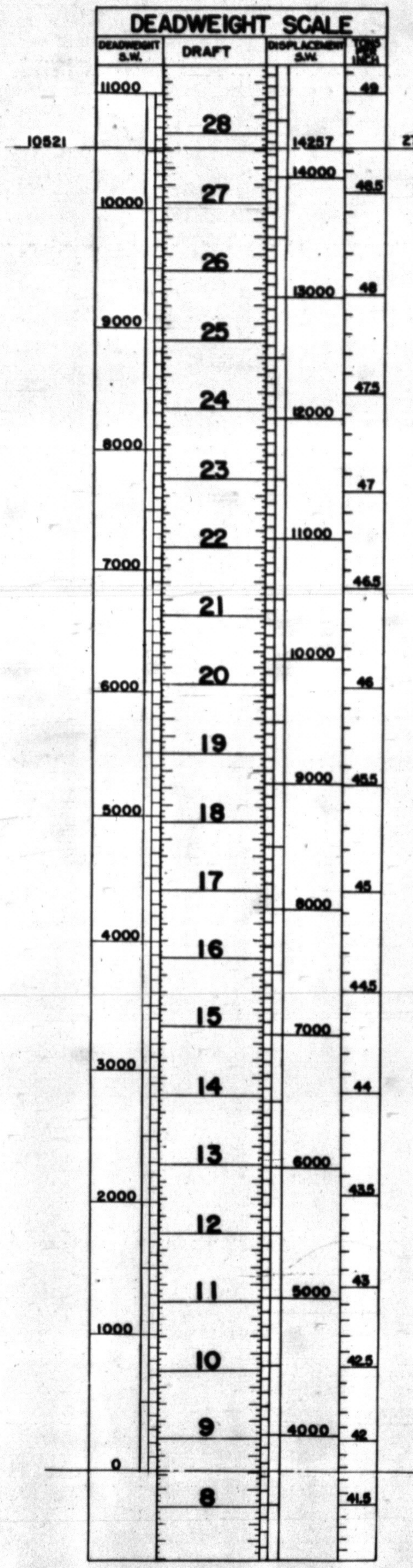
FIXED MAST ABOVE DECK	FOREMAST	40'-3⅝"
" " " "	FR. 68	42'-11⅜"
" " " "	FR. 134	42'-2⅞"
TELESCOPIC " " "	FR. 68	62'-11⅜"
" " " "	FR. 134	62'-2⅞"

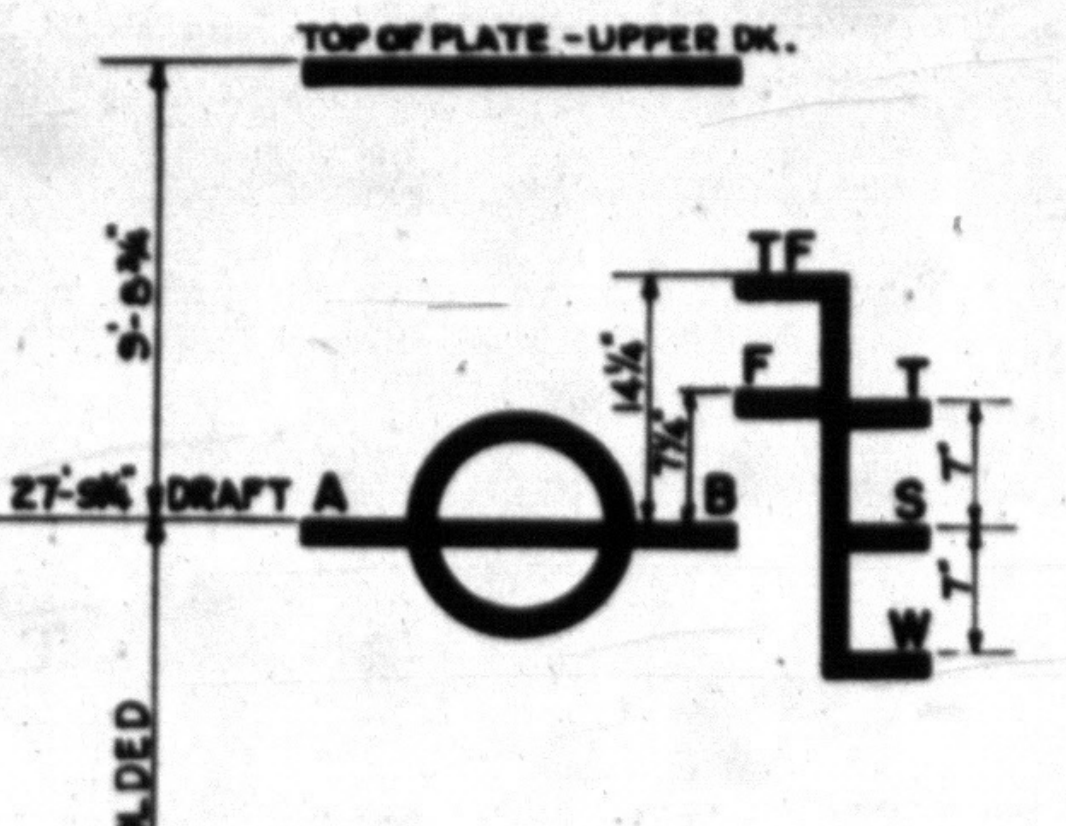
ENGINE

DIRECT ACTING CONDENSING THREE CYLINDER TRIPLE EXPANSION ENGINE DEVELOPING 2500 I.H.P. AT 76 R.P.M.

BOILERS

TWO MAIN BOILERS OF THE CROSS DRUM SECTIONAL SINUOUS HEADER STRAIGHT TUBE TYPE FITTED WITH SUPER HEATERS, BURNING BUNKER "C" FUEL OIL





NO.	ALTERATIONS	DATE	REMARKS
1	CLARIFIED NOTE NO. 1.	L.F.H. 6-7-45	AS REQUESTED BY AGWILINES INC.
2	ADDED BREAKDOWN OF DEFENSE FEATURES.		
3	ADDED NOTES NO.3 & NO.4.		
	NO CHANGE IN DEADWEIGHT OR LIGHTWEIGHT TONNAGE.		

NOTES:

1 1. — THE LIGHT WEIGHT OF THE SHIP GIVEN INCLUDES: DEFENSE FEATURES, AMMUNITION & BALLAST.

2 2. — ESTIMATED WEIGHT OF DEFENSE FEATURES =

ARMAMENT	28.71 TONS
PLASTIC ARMOR ON HOUSE	25.67
MACHINE GUN NESTS	8.77
FWD. GUN PLATFORM, MAGAZINE & TRUNK	13.34
20 MM MACH. GUN NEST & FOUNDATION	
2 UPPER DECK	6.20
2 BRIDGE	5.78
GAS ENGINE FOR 5"/38 CAL. GUN	1.80
ENCLOSURE, FDN., VENT & HOUSE FOR ENG.	3.30
HYDROGEN HOUSE	5.80
DEGAUSSING	12.19
KITE GEAR	1.00
LIFE RAFT & STOWAGE	9.00
TOTAL	121.56 TONS

3 3. — ESTIMATED WEIGHT OF AMMUNITION 26.00 TONS

4. — ESTIMATED WEIGHT OF BALLAST 286.00 TONS

DESIGN NO. EC2-S-C1

UNITED STATES MARITIME COMMISSION
EMERGENCY SHIP CONTRUCTION DIVISION

CAPACITY PLAN

SCALE 1/16" = 1'-0" DATE
DRAWN P.F.P. APPROVED E.F.C.
TRACED APPROVED
CHECKED EFC APPROVED

BETHLEHEM-FAIRFIELD SHIPYARD, INCORPORATED
FAIRFIELD BALTIMORE, MD.

M.C.E. PLAN No 14-63 301-312 S29-1-1-87

APPROVED AS NOTED IN
M.C.E. LETTER DATED MARCH 24, 1943.
M.C.E. FILE NO. S29 (HPA)
BY F. GRAFTON
BY

S. S. SAMUEL BLATCHFORD